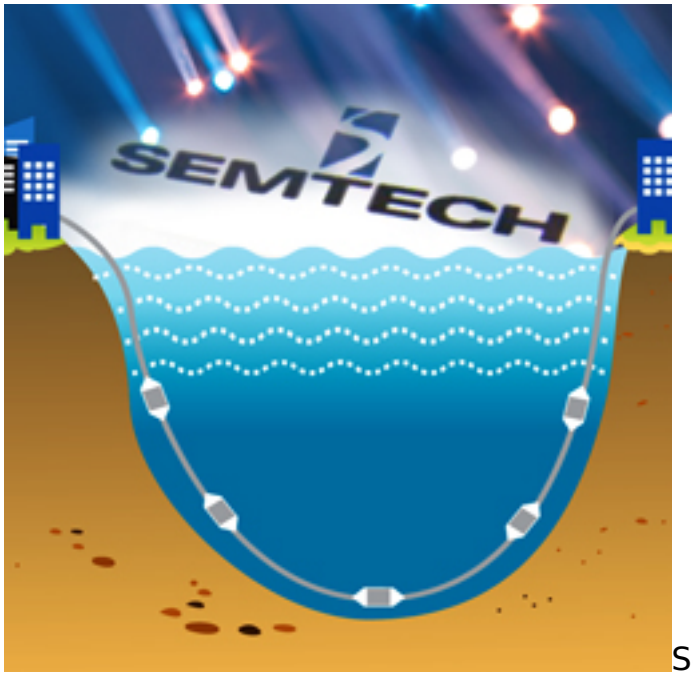
Semtech announces availability of best-in-class 51.0 Gbps SerDes for ultra-long haul applications



Semtech announced the availability of the SMI5026 and SMI5036 its 51.0 Gbps DQPSK multiplexer and demultiplexer chipset. The SMI5026 and SMI5036 are specifically designed to increase FEC overhead enabling a significant improvement in optical transmission reach for ultra-long-haul and submarine optical links. Both devices are designed with BiCMOS Silicon Germanium process and utilize custom state-of-the-art ceramic BGA (SMT) packaging technologies allowing for high reliability, high performance and reduced costs. The SMI5026 multiplexer is also fully compatible to, and can be used in high data rate BSPK-based coherent transmit solutions.

“The SMI5026 and SMI5036 will enable us to target new submarine and ultra-long-haul links that are now being deployed around the world,” said Sameer Vuyyuru, Vice President and General Manager for Semtech’s Advanced Communication Product Group. “Carriers and system vendors can translate our market-leading 51.0 Gbps DQPSK data rate into FEC overhead to increase transmission reach and significantly reduce system costs. We continue to work closely with our customers and generate solutions based on their requirements in order to maintain our market leadership position while offering the most complete product solutions for 40 and 100 Gbps in the industry,” concluded Vuyyuru.

The SMI5026 is a 16:2 multiplexer with on-chip clock multiplier unit (CMU) and integrated DQPSK precoder. The input data and clock interface is compatible with OIFSFI5-01.0 and OIF-SxI5-01.0 standards and the device features data-to-date skew adjust, full and half rate CML clock outputs and an on chip PRWS error checker and pattern generator. The SMI5036 is a 2:16 dual clock and data recovery (CDR) demulitiplexer device with integrated DQPSK decoder. The output data and clock

interface is compatible with OIFSFI5-01.0 and OIF-SxI5-01.0 standards and the device features independent CDR lock status indicators, a per channel adjustable threshold and sample clock phase, and an on chip PRWS error checker and pattern generator.

Availability

Engineering samples of the SMI5026 and SMI5036 devices will be available after April 1, 2012, and the device is scheduled to enter volume production in the second quarter of 2012. Semtech offers comprehensive design assistance, including field- and factory-based support. Data sheets, volume pricing, and delivery quotes, as well as evaluation kits and samples, are available at http://www.semtech.com/info [1].

Source URL (retrieved on *12/24/2014 - 7:21pm*):
http://www.ecnmag.com/products/2012/03/semtech-announces-availability-best-class-510-gbps-serdes-ultra-long-haul-applications

Links:
[1] http://www.semtech.com/info